

2580 Creekview Road Moab, Utah 84532 435/719-2018 435/719-2019 Fax

January 16, 2009

Diana Mason State of Utah Division of Oil Gas and Mining P.O Box 145801 Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill-XTO Energy, Inc. **LCU 1-16H**

> Surface Location: 627' FNL & 210' FEL, NE/4 NE/4, Target Location: 660' FNL & 660' FEL, NE/4 NE/4, Section 16, T11S, R20E, SLB&M, Uintah County, Utah

Dear Diana

On behalf of XTO Energy, Inc., Buys & Associates, Inc., respectfully submits the enclosed original and one copy of the Application for Permit to Drill (APD) for the above referenced Federal surface and SITLA mineral directional well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No 259-01 and are not within 460 feet of any uncommitted tracts or the unit boundary. Included with the APD is the following supplemental information

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corndors;

Exhibit "C" - Production site layout.

Exhibit "D" - Directional Drilling Plan with Directional Survey

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

Don Hamilton Agent for XTO Energy, Inc. RECEIVED IAN 2 2 2009

DIV. OF OIL, GAS & MINING

cc. Jim Davis, SITLA

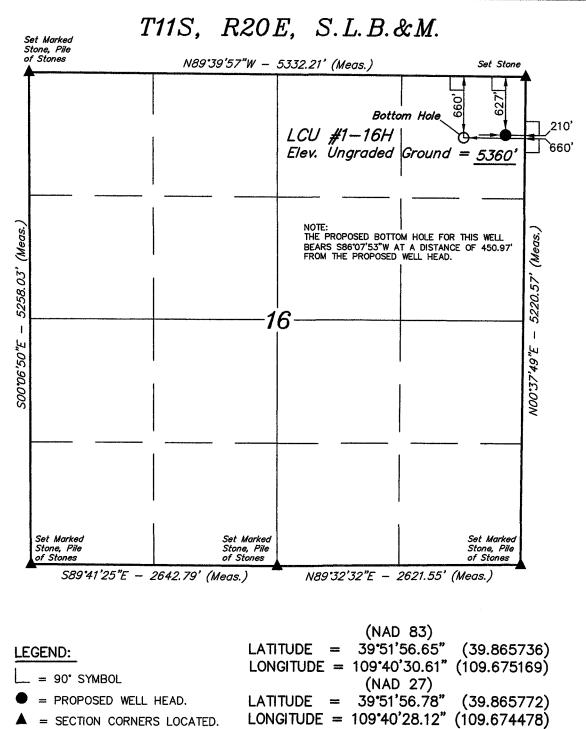
Fluid Mineral Group, BLM—Vernal Field Office (with BLM surface use request sundry notice) Ken Secrest, XTO Energy, Inc (with BLM surface use request sundry notice)

FORM 3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT	
(highlight changes)	

		APPLICA	ATION FOR	R PE	RMIT TO	O DRILL		5. MINERAL LEASE NO: ML-48772	6. SURFACE: Federal		
1A. TYPE OF W	ORK:	DRILL 🔽	REENTER		DEEPEN			7. IF INDIAN, ALLOTTEE OR			
B. TYPE OF W	ELL: OIL	GAS 🗹	OTHER		SIN	IGLE ZONE MULTIPLE ZON	IE 🗾	8			
					*****			9. WELL NAME and NUMBER			
		Roo	sevelt	I	IT 84	PHONE NUMBER: (435) 722-4524		10. FIELD AND POOL, OR WI	LDCAT:		
4. LOCATION OF	F WELL (FOOTAG	GES) 61335	4x 441351	TATE	39,845	988 -109,674690		11. QTR/QTR, SECTION, TOV	VNSHIP, RANGE,		
AT SURFACE:	627' FNL	& 210' FEL	, NE/4 NE/4,			, ,			20E S		
AT PROPOSEI	PRODUCING Z	ONE: 660'FI . 441350	NL & 660' FE 2 Y 39.8	L, N 658	E /4 NE/4 , ' 94 — [09.676291					
14. DISTANCE I	N MILES AND DIF	RECTION FROM NE	EAREST TOWN OR F	POST O	FFICË:			12. COUNTY:	13. STATE: UTAH		
		• •			16 NUMBER O	E ACDES IN LEASE.	17.0				
210'	01101110011111	or Entry On Echol	- LIVE (1 Late 1)		70. NOWBER O	FACRES IN LEASE:	17.19	UMBER OF ACRES ASSIGNED			
18. DISTANCE TO APPLIED FOI	O NEAREST WE	LL (DRILLING, COM SE (FEET)	MPLETED, OR		19. PROPOSED	DEPTH:	20. BO	OND DESCRIPTION:			
2,550'						9,241	<u> </u>		? 762		
		IER DF, RT, GR, ET	rc.):								
				uays							
24.			PROPO	SED	CASING A	ND CEMENTING PROGRAM			_		
SIZE OF HOLE	CASING SIZE	, GRADE, AND WE	IGHT PER FOOT	SET	TING DEPTH	CEMENT TYPE, QU	ANTITY,	YIELD, AND SLURRY WEIGHT			
40.4/4"	0.5/0"	LCCOT	00"								
1-110	J-1/2	14-00 L1	1/#		9,241	see Drilling Plan	/				
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							9200	IVD	15 Min - 10		
				الوجيبيسانيا					***************************************		
25.		***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ΔΤΤΔ(CHMENTS					
12. TYPE OF WORK 13. TYPE OF WORK 14. OIL											
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						1_					
	L OF BIVIOION C	WATERRIGING	AFFROVAL FOR O	3E OF V	VATER	FORM 5, IF OPERATOR IS PER	RSON OF	R COMPANY OTHER THAN THE	LEASE OWNER		
	Don H	lamilton				Agent for VTO	Enor	av Ino			
NAME (PLEASE P	PRINT) DOIT!	1 /	. //				Ellel	gy, IIIG.			
SIGNATURE	SINGLE ZONE MULTIPLE ZONE LETTE Canyon Unit Multiple ZONE MULTIPLE ZONE LETTE CANDON INTERPRETATION DEPTHY, Inc. O Energy, Inc. O Energy, Inc. O Energy, Inc. Box 1360 Make & Presentor Substance & 627 FNL & 210 FEL, NEA NEZA Make &										
This space for State	e use only)			•) [CEIVE			
API NUMBER ASS	IGNED:	43-847	40493		Date: 💇	03 APPROVALOG () JAN 2 2 2009					
11/2001)				E	By installing	in Wall	DIV C	F OIL, GAS & MIN	ING		



XTO ENERGY, INC.

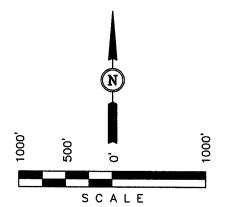
Well location, LCU #1-16H, located as shown in the NE 1/4 NE 1/4 of Section 16, T11S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M., TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT THE PREPARED PREFIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND GONTE POR THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR REGISTRATION NO. 161319

REVISED: 01-13-09

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017

1" = 1000)'		DATE SURVEYED: DATE DRAWN: 08-23-06 08-28-06						
B.B.	г.н.	S.L.	REFERENCES G.L.O. PLAT						
VEATHER			FILE						
WARM			XTO ENERGY, INC.						

XTO ENERGY INC.

LCU 1-16H APD Data September 18, 2008

Location: 627' FNL & 210' FEL, Sec. 16, T11S, R20E County: Uintah

State: Utah

Bottomhole Location: 660' FNL & 660' FEL, Sec. 16, T11S, R20E

GREATEST PROJECTED TD: 9241' MD/ 9200' TVD

APPROX GR ELEV: 5360'

OBJECTIVE: Wasatch/Mesaverde Est KB ELEV: 5374' (14' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 2231'	2231' to 9241'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.80 ppg	8.6-9.2 ppg
VISCOSITY	NC	30-60 sec-qt ⁻¹
WATER LOSS	NC	8-15 cc/30 min

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ±2231'MD/2200'TVD in a 12.25" hole filled with 8.8 ppg mud

					Coll	Burst						
					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-2231'	2231'	36#	J-55	ST&C	2020	3520	394	8.921	8.765	2.57	4.47	4.91

Production Casing: 5.5" casing set at ± 9241 'MD/9200'TVD in a 7.875" hole filled with 9.20 ppg mud.

					Coll	Burst						
l					Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
0'-9241'	9241'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.80	2.22	2.22

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

4. **CEMENT PROGRAM:**

A. Surface:

9.625", 36#, J-55 (or equiv.), ST&C casing to be set at ± 2231 ' in 12.25" hole.

LEAD:

±219 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.0 ppg, 3.82 ft³/sk, 22.95 gal wtr/sx.

TAIL:

350 sx Class G or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 15.6 ppg, 1.2 cuft/sx

Total estimated slurry volume for the 9.625" surface casing is 1256.9 ft³. Slurry includes 75% excess of calculated open hole annular volume to 2231'.

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9241' in 7.875" hole.

LEAD:

±304 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.10 ft³/sk, 17.71 gal wtr/sx.

TAIL:

400 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.49 cuft/sx, 9.09 gal/sx.

Total estimated slurry volume for the 5.5" production casing is 1537.1 ft³. Slurry includes 15% excess of calculated open hole annular volume.

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface casing string. The production casing is designed for 1731' top of cement..

5. LOGGING PROGRAM:

sur face

- A. Mud Logger: The mud logger will come on at intermediate casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (9241') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9241') to 2231'. Run Gamma Ray to surface.

6. FORMATION TOPS:

Please see attached directional plan.

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	TV Depth Top			
Green River	Water/Oil Shale	604			
Mahogany Bench Mbr.	Water/Oil Shale	1,374			
Wasatch Tongue	Oil/Gas/Water	3,304			
Green River Tongue	Oil/Gas/Water	3,644			
Wasatch*	Gas/Water	3,784			
Chapita Wells*	Gas/Water	4,704			
Uteland Buttes	Gas/Water	5,804			
Mesaverde*	Gas/Water	6,499			
Castlegate	Gas/Water	9,179			

- B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
- C. There are no known potential sources of H_2S .

- D. The bottomhole pressure is anticipated to be between 4200 psi and 4600 psi.
- E. According to the USGS, the Base of Moderately Saline Water is at 3819'.

8. **BOP EQUIPMENT**:

Surface will utilize a 500 psi or greater diverter.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed:
- b. whenever any seal subject to test pressure is broken
- c. following related repairs: and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

Annular BOP -- 1500 psi
Ram type BOP -- 3000 psi
Kill line valves -- 3000 psi
Choke line valves and choke manifold valves -- 3000 psi
Chokes -- 3000 psi
Casing, casinghead & weld -- 1500 psi
Upper kelly cock and safety valve -- 3000 psi
Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- e. See attached BOP & Choke manifold diagrams.

9. COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-333-3163	505-330-6902
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Jeff Jackson	Project Geologist	817-885-2800	





Well Name: LCU 1-16H

San Juan Division **Drilling Department**

Calculation Method: Minimum Curvature

Geodetic Datum: North American Datum 1983

Lat: 39° 51' 56.650 N Long: 109° 40' 30.608 W

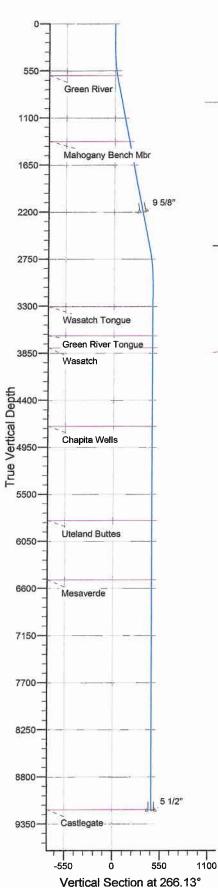


Azimuths to True North Magnetic North: 11.46°

> Magnetic Field Strength: 52526.2nT Dip Angle: 65.80° Date: 9/17/2008 Model: IGRF200510

604 1374 3304 3644 3784 4704 5804	.0 605.3 .0 1389.4 .0 3344.9 .0 3684.9 .0 3824.9 .0 4744.9 .0 5844.9 .0 6539.9	Mahogany I Wasatch To Green Rive Wasatch Chapita We Uteland But	Bench Mbr ongue r Tongue Ills tes			TVD 2200.0 9200.0	MD 2230.6 9240.9	Name Size 9 5/8" 9-5/8 5 1/2" 5-1/2		
625	450	275	VVest(-)/I -300	East(+) (150 -225	(150 -150	-75	0	76		
-525	-450	375	-300	-225 	-150	-/5	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	75	_ا_	
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Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0,0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	664.5	10.93	266.13	662.3	-2.3	-34.6	3.00	266.13	34.7	
4	2676.5	10.93	266,13	2637.7	-28.1	-415.4	0.00	0.00	416.3	
5	3040.9	0.00	0.00	3000.0	-30.4	-449.9	3.00	180.00	451.0	
6	3540.9	0.00	0.00	3500.0	-30.4	-449.9	0.00	0.00	451.0	LCU 1-16H Requested BHL
7	9240.9	0.00	0.00	9200.0	-30.4	-449.9	0.00	0.00	451.0	·



XTO Energy

Natural Buttes Wells(NAD83) LCU 1-16H LCU 1-16H LCU 1-16H

Plan: Permitted Wellbore

Standard Planning Report

17 September, 2008

XTO Energy, Inc.

Planning Report

Database:

EDM 2003.14 Single User Db

Company:

XTO Energy

Project:

Natural Buttes Wells(NAD83)

Site: Well: LCU 1-16H LCU 1-16H LCU 1-16H

Wellbore: Design:

Permitted Wellbore

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well LCU 1-16H

Rig KB @ 5374.0ft (Frontier #6) Rig KB @ 5374.0ft (Frontier #6)

True

Minimum Curvature

ed Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	3.00	266.13	400.0	-0.2	-2.6	2.6	3.00	3.00	0.00
500.0	6.00	266.13	499.6	-0.7	-10.4	10.5	3.00	3.00	
600.0	9.00	266.13	598.8	-1.6	-23.5	23.5	3.00	3.00	0.00
605.3	9.16	266.13	604.0	-1.6	-24.3	24.3	3.00	3.00	0.00 0.00
Green River			001.0	1.0	24.0	24.0	5.00	3.00	0.00
664.5	10.93	266.13	662.3	-2.3	-34.6	34.7	2.00	2.00	0.00
700.0	10.93	266.13	697.1	-2.8	-34.6 -41.3	34.7 41.4	3.00	3.00	0.00
				-2.0	-41.3	41.4	0.00	0.00	0.00
800.0	10.93	266.13	795.3	-4.1	-60.2	60.4	0.00	0.00	0.00
900.0	10.93	266.13	893.5	-5.4	-79.2	79.3	0.00	0.00	0.00
1,000.0	10.93	266.13	991.7	-6.6	-98.1	98.3	0.00	0.00	0.00
1,100.0	10.93	266.13	1,089.9	-7.9	-117.0	117.3	0.00	0.00	0.00
1,200.0	10.93	266.13	1,188.1	-9.2	-135.9	136.2	0.00	0.00	0.00
1,300.0	10.93	266.13	1,286.3	-10.5	-154.9	155.2	0.00	0.00	0.00
1,389.4	10.93	266.13	1,374.0	-11.6	-171.8	172.2	0.00	0.00	0.00
Mahogany Be	ench Mbr		.,				0.00	0.00	0.00
1,400.0	10.93	266.13	1,384.4	-11.8	-173.8	174.2	0.00	0.00	0.00
1,500.0	10,93	266.13	1,482.6	-13.0	-192.7	193.2	0.00	0.00	0.00
1,600.0	10.93	266.13	1,580.8	-14.3	-211.6	212.1	0.00	0.00	0.00
•							0.00	0.00	0.00
1,700.0	10.93	266.13	1,679.0	-15.6	-230.6	231.1	0.00	0.00	0.00
1,800.0	10.93	266.13	1,777.2	-16.9	-2 4 9.5	250.1	0.00	0.00	0.00
1,900.0	10.93	266.13	1,875.4	-18.2	-268.4	269.0	0.00	0.00	0.00
2,000.0	10.93	266.13	1,973.5	-19.4	-287.3	288.0	0.00	0.00	0.00
2,100.0	10.93	266.13	2,071.7	-20.7	-306.3	307.0	0.00	0.00	0.00
2,200.0	10.93	266.13	2,169.9	-22.0	-325.2	325.9	0.00	0.00	0.00
2,230.6	10.93	266.13	2,200.0	-22.4	-331.0	331.7	0.00	0.00	0.00
9 5/8"									
2,300.0	10.93	266.13	2,268.1	-23.3	-344.1	344.9	0.00	0.00	0.00
2,400.0	10.93	266.13	2,366.3	-24.6	-363.0	363.9	0.00	0.00	0.00
2,500.0	10.93	266.13	2,464.5	-25.8	-382.0	382.8	0.00	0.00	0.00
2,600.0	10.93								
2,676.5	10.93	266.13	2,562.7	-27.1	-400.9	401.8	0.00	0.00	0.00
2,700.0	10.93	266.13 266.13	2,637.7	-28.1	-415.4 410.7	416.3	0.00	0.00	0.00
2,800.0	7.23	266.13	2,660.9 2,759.7	-28.4 - 29.4	-419.7	420.6	3.00	-3.00	0.00
2,900.0	4.23	266.13	2,759.7 2,859.2	-29.4 -30.1	-434.8	435.8	3.00	-3.00	0.00
•			-		-444.8	445.8	3.00	-3.00	0.00
3,000.0	1.23	266.13	2,959.1	-30.4	-449.5	450.5	3.00	-3.00	0.00
3,040.9	0.00	0.00	3,000.0	-30.4	-449.9	451.0	3.00	-3.00	0.00
3,100.0	0.00	0.00	3,059.1	-30.4	-449.9	451.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,159.1	-30.4	-449.9	451.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,259.1	-30.4	-449.9	451.0	0.00	0.00	0.00
3,344.9	0.00	0.00	3,304.0	-30.4	-449.9	451.0	0.00	0.00	0.00
Wasatch Tong		5.00	0,001.0	50.7		- 51.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,359.1	-30.4	-449.9	4E4 O	0.00	0.00	0.00
3,500.0	0.00	0.00	3,459.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
3,540.9	0.00	0.00	3,500.0	-30.4 -30.4	-449.9 -449.9	451.0	0.00	0.00	0.00
•		5.00	3,300.0	~50.4	- 44 8.8	451.0	0.00	0.00	0.00
	Requested BHL	0.00	0 EFO 4	20.4	440.0	484.5			
3,600.0	0.00	0.00	3,559.1	-30.4	-449.9	451.0	0.00	0.00	0.00
3,684.9	0.00	0.00	3,644.0	-30.4	-449.9	451.0	0.00	0.00	0.00
Green River T	ongue								
3,700.0	0.00	0.00	3,659.1	-30.4	-449.9	451.0	0.00	0.00	0.00

XTO Energy, Inc.

Planning Report

Database:

EDM 2003.14 Single User Db

Company:

XTO Energy

Project: Site:

Natural Buttes Wells(NAD83)

Well:

LCU 1-16H LCU 1-16H

Wellbore: Design:

LCU 1-16H

Permitted Wellbore

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well LCU 1-16H

Rig KB @ 5374.0ft (Frontier #6) Rig KB @ 5374.0ft (Frontier #6)

True

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
3,800.0	0.00	0.00	3,759.1	-30.4	-449.9	451.0	0.00	0.00	0.00
3,824.9	0.00	0.00	3,784.0	-30.4	-449.9	451.0	0.00	0.00	0.00
Wasatch			-,					3.00	5.5
3,900.0	0.00	0.00	3,859.1	-30.4	-449.9	451.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,959.1	-30.4	-449.9	451.0	0.00	0.00	0.00
4,100.0	0.00	0.00	3,959.1 4,059.1	-30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,159.1	-30.4	-449.9	451.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,259.1	-30.4	-449.9	451.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,359.1	-30.4	-449.9	451.0	0.00	0.00	0.00
4,500.0	0.00	0.00	·						
4,600.0	0.00	0.00	4,459.1 4,559.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00 0.00	0.00	0.00 0.00
4,700.0	0.00	0.00	4,559.1 4,659.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
4,700.0 4,744.9	0.00	0.00	4,009.1 4,704.0	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00 0.00	0.00
4,744.9 Chapita Wells		0.00	7,704.0	-30.4	- 44 8.3	+51.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,759.1	-30.4	~449.9	451.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,859,1	-30.4	-449.9	451.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,959.1	-30.4	-449.9	451.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,059.1	-30,4	-449.9	451.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,159.1	-30.4	-449.9	451.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,259.1	-30.4	-449.9	451.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,359.1	-30.4	-449.9	451.0	0.00		
5,400.0 5,500.0	0.00	0.00	5,359.1 5,459.1	-30.4 -30.4	-449.9 -449.9		0.00	0.00	0.00
5,600.0	0.00	0.00	5,559.1	-30.4	-449.9 -449.9	451.0 451.0	0.00	0.00 0.00	0.00 0.00
5,700.0	0.00	0.00	5,659.1	-30.4	-449.9	451.0 451.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,759.1	-30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
5,844.9	0.00	0.00	5,804.0	-30.4	-449.9	451.0	0.00	0.00	0.00
Uteland Butte		0.00	5,804.0	-30.4	-449.9	451.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,859.1	-30.4	-449.9	451.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,959.1	-30.4	-449.9	451.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,059.1	-30.4	-449.9	451.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,159.1	-30.4	-449.9	451.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,259.1	-30.4	-449.9	451.0	0.00		
6,400.0	0.00	0.00	6,259.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00 0.00	0.00 0.00
6,500.0	0.00	0.00	6,359.1 6,459.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
6,539.9	0.00	0.00	6,499.0	-30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
o,oos.s Mesaverde	0.00	0.00	0,488.0	-30.4	-44 5.5	401.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,559.1	-30.4	-449.9	451.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,659.1	-30.4			0.00		
6,800.0	0.00	0.00	6,759.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00 0.00	0.00 00.0
6,900.0	0.00	0.00	6,759.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,959.1	-30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,059.1	-30.4	-449.9	451.0	0.00	0.00	0.00
· ·			•						
7,200.0 7,300.0	0.00 0.00	0.00 0.00	7,159.1 7,259.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00 0.00	0.00 0.00	0.00
7,300.0 7,400.0	0.00	0.00	7,259.1 7,359.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00	0.00
7,400.0 7,500.0	0.00	0.00	7,359.1 7,459.1		-449.9 -449.9	451.0 451.0	0.00		0.00
7,500.0 7,600.0	0.00	0.00	7,459.1 7,559.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00	0.00 0.00	0.00 0.00
7,700.0	0.00	0.00	7,659.1	-30.4	-449.9	451.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,759.1	-30.4	-449.9 449.0	451.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,859.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,000.0 8,100.0	0.00 0.00	0.00 0.00	7,959.1 8,059.1	-30.4 -30.4	-449.9 -449.9	451.0 451.0	0.00 0.00	0.00 0.00	0.00 0.00
	17 1313	11111							

XTO Energy, Inc.

Planning Report

Database:

EDM 2003.14 Single User Db

Company:

XTO Energy

Project:

Natural Buttes Wells(NAD83)

Site: Well: LCU 1-16H

Wellbore:

LCU 1-16H LCU 1-16H

Design:

Permitted Wellbore

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Well LCU 1-16H

Rig KB @ 5374.0ft (Frontier #6) Rig KB @ 5374.0ft (Frontier #6)

True

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
8,300.0	0.00	0.00	8,259.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,359.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,459.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,559.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,659.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,759.1	-30.4	-449.9	451.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,859.1	-30.4	-449.9	451.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,959.1	-30.4	-449.9	451.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,059.1	-30.4	-449.9	451.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,159.1	-30.4	-449.9	451.0	0.00	0.00	0.00
9,219.9	0.00	0.00	9,179.0	-30.4	-449.9	451.0	0.00	0.00	0.00
Castlegate									
9,240.9	0.00	0.00	9,200.0	-30.4	-449.9	451.0	0.00	0.00	0.00

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LCU 1-16H Requested - plan hits target - Circle (radius 30.0)	0.00	0.00	3,500.0	-30.4	-449.9	3,115,803.89	2,152,305.82	39° 51′ 56.349 N	109° 40' 36.377 W

Casing Points						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
	2,230.6 9,240.9	2,200.0 9,200.0		9-5/8 5-1/2	12-1/4 7-7/8	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	605.3	604.0	Green River		0.00		
	1,389.4	1,374.0	Mahogany Bench Mbr		0.00		
	3,344.9	3,304.0	Wasatch Tongue		0.00		
	3,684.9	3,644.0	Green River Tongue		0.00		
	3,824.9	3,784.0	Wasatch		0.00		
	4,744.9	4,704.0	Chapita Wells		0.00		
	5,844.9	5,804.0	Uteland Buttes		0.00		
	6,539.9	6,499.0	Mesaverde		0.00		
	9,219.9	9,179.0	Castlegate		0.00		

SURFACE USE PLAN

Name of Operator:

XTO Energy, Inc. P.O. Box 1360;

Address:

Roosevelt, Utah 84066

Well Location:

LCU 1-16H

Surface Location: 627' FNL & 210' FEL, NE/4 NE/4, Target Location: 660' FNL & 660' FEL, NE/4 NE/4, Section 16, T11S, R20E, SLB&M, Uintah County, Utah

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The BLM onsite inspection for the referenced well was conducted on Tuesday, October 24, 2006 at approximately 9:45 am. In attendance at the onsite inspections were the following individuals:

BLM - Vernal Karl Wright Nat. Res. Prot. Spec. BLM - Vernal Amy Torres Wildlife Biologist Ken Secrest Regulatory Coordinator = XTO Energy, Inc. **Uintah Engineering** Brandon Bowthorpe Surveyor LaRose Construction Billy McClure Foreman Jackson Construction Randy Jackson Foreman Don Hamilton Agent Buys & Associates, Inc.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 15.38 miles southeast of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Little Canyon Unit area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this fime.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road and utility corridors since both are located entirely within the Little Canyon Unit area.

2. Planned Access Roads:

- a. From the proposed LCU 13-10H access road an access is proposed trending southwest approximately 0.4 miles along new disturbance to the proposed well site. The access crosses no significant drainages.
- b. A road design plan is not anticipated at this time.
- c. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across entirely BLM and surface.
- d. BLM approval to construct and utilize the proposed access road is requested with this application.
- e. A maximum grade of 10% will be maintained throughout the project.
- f. No turnouts are proposed since adequate site distance exists in all directions.
- g. No low-water crossings and one culvert as the road enters the pad is anticipated. Adequate drainage structures will be incorporated into the road.
- h. No surfacing material will come from federal or Indian lands.
- i. No gates or cattle guards are anticipated at this time.
- j. Surface disturbance and vehicular travel will be limited to the approved location access road.
- k. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (Gold Book – Fourth Edition - Revised 2007).
- I. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Covert Green /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines

and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.

- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A pipeline corridor containing a single steel gas pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the east side of the well site and traverse 2,066' northeast to the proposed LCU 13-10H pipeline corridor. The pipeline will then traverse east 400' along the proposed LCU 13-10H pipeline corridor to the existing BPU area pipeline.
- The new segment of gas pipeline will be a 12" or less surface laid line within a 30' wide pipeline corridor.
- j. Construction of the pipeline corridor will temporarily utilize the 30' disturbed width for the road for a total disturbed width of 60' for the road and pipeline corridors. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction.
- k. XTO Energy, Inc. intends to surface install the pipeline and connect the pipeline together utilizing conventional welding technology.

Location and Type of Water Supply:

- a. No water supply pipelines will be laid for this well.
- b. No water well will be drilled for this well.
- c. Drilling water for this will be hauled on the road(s) shown in Exhibit B.
- d. Water will be hauled from one of the following sources:
 - Water Permit # 43-10991, Section 9, T8S, R20E;
 - Water Permit #43-2189, Section 33, T8S, R20E;
 - Water Permit #49-2158, Section 33, T8S, R20E;
 - Water Permit #49-2262, Section 33, T8S, R20E;
 - Water Permit #49-1645, Section 5, T9S, R22E;
 - Water Permit #43-9077, Section 32, T6S, R20E;
 - o Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the south side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.
- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.
- . Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps, airstrips or staging areas are proposed with this application.
- 9. Well Site Layout: (See Exhibit B)
 - a. The well will be properly identified in accordance with 43 CFR 3162.6.
 - b. Access to the well pad will be from the east.
 - c. The pad and road designs are consistent with BLM specifications.
 - d. A pre-construction meeting with responsible company representative, contractors and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
 - e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
 - f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
 - g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
 - h. Diversion ditches will be constructed as shown around the well site to prevent surface waters form entering the well site area.
 - i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
 - j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
 - k. Pits will remain fenced until site cleanup.
 - 1. The blooie line will be located at least 100 feet from the well head.
 - m. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
- c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
 - a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
 - b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:

Hy-Crested Wheat Grass
 Needle and Thread Grass
 Squirrel Tail
 (4 lbs / acre)
 (4 lbs / acre)
 (4 lbs / acre)

- c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
- d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- Surface Ownership Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.
- b. Mineral Ownership State of Utah under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

a. Operators Contact Information:

<u>Title</u>	Name	Office Phone	Mobile Phone	<u>e-mail</u> .
Company Rep.	Ken Secrest		435-828-1450 Ker	_Secrest@xtoenergy.com
Agent	Don Hamilton		435-719-2018 star	point@etv.net

- b. An Independent Archeologist. has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by An Independent Archeologist.
- c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- d. Our understanding of the results of the onsite inspection are:
 - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
 - b. No drainage crossings that require additional State or Federal approval are being crossed.

Certification:

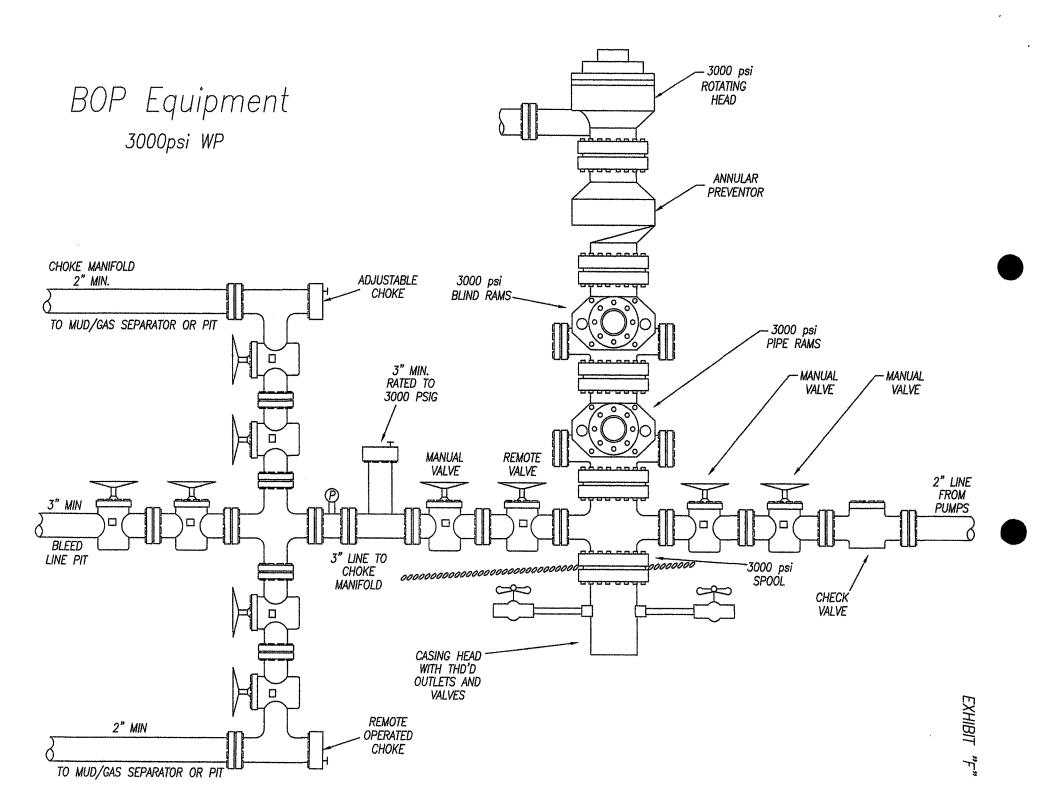
I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's BLM bond UTB-000138 and SITLA bond 104312 762. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 16th day of January, 2009.

Don Hamilton -- Agent for XTO Energy, Inc.

2580 Creekview Road Moab, Utah 84532

435-719-2018 starpoint@etv.net



Dominion Exploration & Production, Inc. Little Canyon Unit #1-16H: A Cultural Resource Inventory for a well its access and pipeline, Uintah County, Utah.

> By James A. Truesdale

James A. Truesdale Principal Investigator

Prepared For
Dominion Exploration and Production, Inc.
1400 North State Street
P.O.Box 1360
Roosevelt, Utah
84066

Prepared By
AN INDEPENDENT ARCHAEOLOGIST
P.O.Box 153
Laramie, Wyoming
82073

Utah Project # U-06-AY-205(b)

March 29, 2007

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Figure 2. View to north at the proposed Little Canyon Unit #1-16H well centerstake and well pad area. - - - - - - 4

Introduction

An Independent Archaeologist (AIA) was contacted by a representative of Dominion Exploration & Production, Inc., to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #1-16H well, its access and pipeline. The location of the project area is the NE/NE 1/4 of Section 16, T11S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #1-16H well's centerstake footage is 627' FNL, 210' FEL. The proposed LCU #1-16H well's centerstake Universal Transverse Mercator (UTM) centroid coordinate is Zone 12, North American Datum (NAD) 83, 06/13/309.93 mE 44/13/698.38 mN \pm 5m.

From an existing oil and gas field service road and pipeline, the access and pipeline parallel each other and trend 2000 feet (609.7 m) southwest to the proposed LCU #1-16H well pad.

The surface is administered by the United States (US), Department of Interior (DOI), Utah Bureau of Land Management (BLM), Vernal District Office, Book Cliffs Resource Area. A total of 28.36 acres (10 block, 18.36 linear) was surveyed. The fieldwork was conducted on March 13, 2007 by AIA archaeologists James Truesdale and CJ Truesdale. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on February 20, 2006. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author. An update of AIA's USGS 7.5'/1968 (photorevised 1987) Big Pack Mountain NW quadrangle map from the UDSH's Big Pack Mountain NW quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that no previous cultural resource management projects had been conducted in the general area (Section 16 of T11S R20E). In addition, no cultural resources (sites, isolates) were recorded during this past project.

After review of AIA base maps and cultural records, no additional projects had been previously conducted in the area.

Environment

Physiographically, the project is located in the Little Canyon Unit in the Uinta Basin, 14 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta basin is a large, relatively flat, bowl shaped, east-west

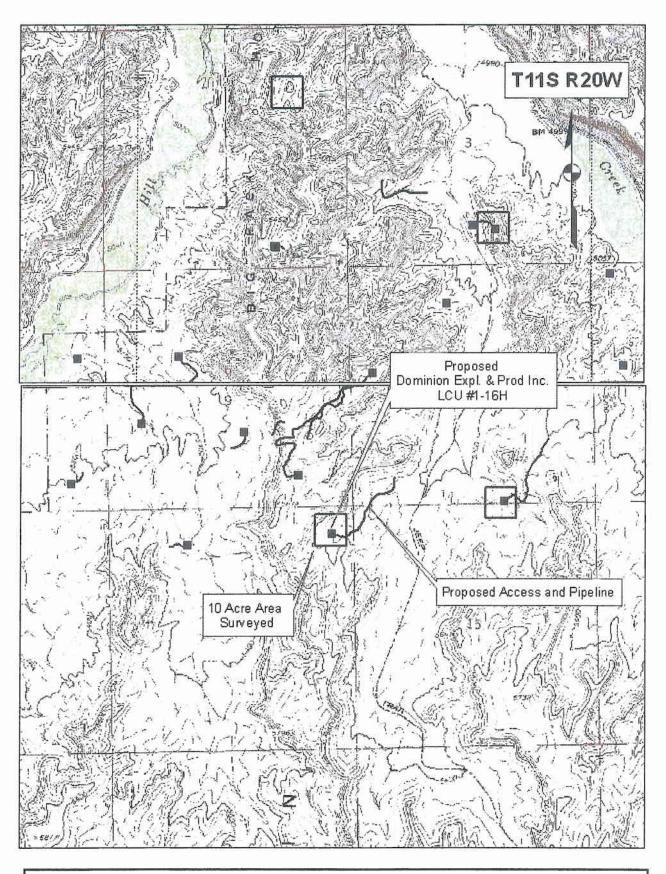


Figure 1. Location of the proposed Dominion Expl. & Prod Inc. LCU #1-16H well, its access and pipeline on 7.5'/1968 USGS quadrangle map Big Pack Mountain NW, Uintah County, Utah.

asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluviatile, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated along the eastern slopes of Big Pack Mountain. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the Little Canyon Unit area is characteristic of a low sagebrush community with shad scale and greasewood. Species observed in the project area include; big sagebrush tridentata), shadscale (Artemesia (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), (Agropyron smithii), wheatgrass spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur Indian paintbrush (Castilleja chromosa), (Delphinium sp.), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia birdscage evening primrose intergrifolian), (Oenothera Russian thistle (Salsola kali), Russian knapweed deltoides), (Centaurea repens), and prickly pear cactus (Opuntia sp.). addition, a riparian community dominated by tall greasewood, cottonwood (Populas sp.), willow (Salix sp.), and salt cedar (tamerix) can be found along the Willow Creek Canyon bottom.

Little Canyon Unit (LCU) #1-16H

The proposed LCU #1-16H well pad is situated along a sequence of small eroded ridges at the bottom of the steep eastern talus slope of Big Pack Mountain (Figure 2). The well pad is also located in a large broad box like canyon. The sediments on the

well location are colluvial in nature. These colluvial deposits consist of shallow (< 15 cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with small to large angular pieces of sandstone, clay and shale. Exposed and eroding tan to light brown sandstone and shale bedrock dominates the Willow Creek Canyon landscape. Vegetation consists of tall greasewood, low sagebrush, saltbush, rabbitbrush, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5385 feet (1641.76 m) AMSL.

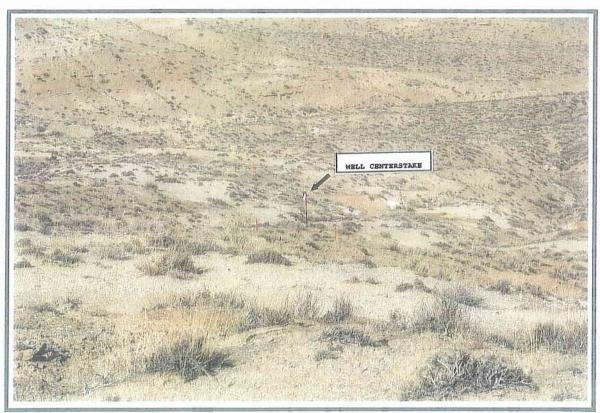


Figure 2. View to north at the proposed LCU #1-16H centerstake and well pad area.

From and existing oil and gas field service road and pipeline, the proposed access and pipeline parallel each other and trend southwest 2000 feet (609.7 m) to the proposed well pad. The access and pipeline trend southwest, up the northern side of a small ephemeral drainage wash to a large broad box like canyon, and the proposed well pad. Sediments along the access and pipeline are colluvial in nature. These colluvial sediments are shallow (< 10 cm) and consists of poorly sorted, loosely compacted, sandy clay loam. Rock fall boulders from the canyon walls can be found along the road. Vegetation along the access and pipeline consists of tall greasewood, low sagebrush, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #1-16H well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline parallel each other. Each of these linear corridors surveyed is 2000 feet (304.8 m) long and 200 feet (60.8 m) wide, 9.18 acres. Thus, 18.36 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and saddles) and areas of subsurface exposure (ant hills, blowouts, rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) Sites were mapped with a Brunton compass, Trimble are mapped. Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale et al 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and Garmin GPS III Plus and/or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

Results

A total of 28.36 (10 block, 18.36 linear) acres were surveyed for cultural resources by AIA within and around the proposed Dominion Exploration & Production, Inc. Little Canyon Unit (LCU) #1-16H well, and along its access and pipeline. No cultural materials (sites and/or isolates) were recorded during the survey for the proposed LCU #1-16H well pad, its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Recommendations

A total of 28.36 (10 block, 18.36 linear) acres were surveyed for cultural resources by AIA within and around the proposed Dominion Exploration & Production, Inc. Little Canyon Unit #1-16H well, and along its access and pipeline. No historic properties (sites, isolates) were recorded during the survey.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow to moderately deep. However, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. No cultural resources (historic properties, isolates) were recorded during the survey for the proposed LCU #1-16H well, its access and pipeline. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #1-16H well pad, its access, and pipeline.

REFERENCES CITED

- Childs, O.E.
 - 1950 Geologic history of the Uinta Basin, Utah Geological and Mineralogical Survey. <u>Guidebook to the Geology of Utah</u>, No. 5:49-59.
- Stokes, William D.
 - 1986 Geology of Utah. Contributions by the Utah Museum of Natural History, and the Utah Geological and Mineral Survey Department of Natural Resources. Utah Museum of Natural History, Occasional Papers, No. 6.
- Thornbury, William D.
 - 1965 Regional Geomorphology of the United States. John Wiley & Sons, Inc.
- Truesdale, James A., Kathleen E Hiatt, and Clifford Duncan 1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

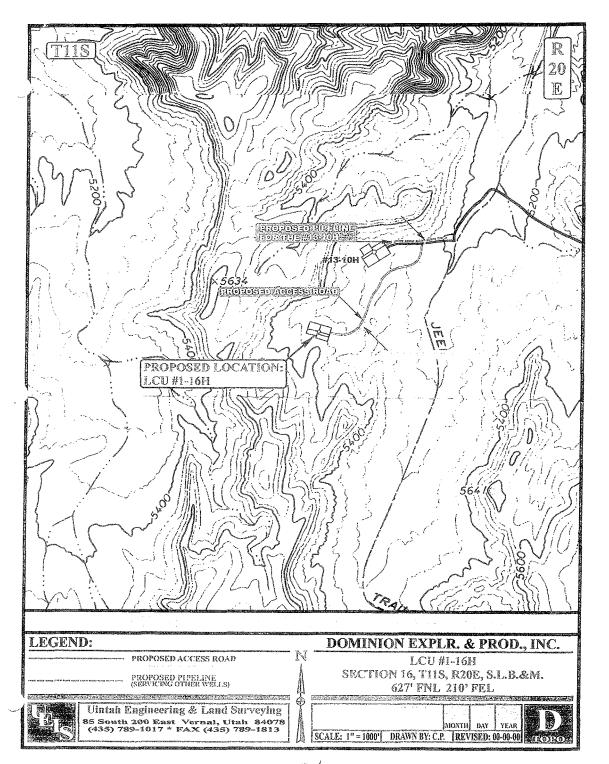
PALEONTOLOGY EVALUATION SHEET

PROJECT: (84) Dominion Well LCU #1-16H
LOCATION: Fifteen miles south of Ouray, Utah. Section 16, 627' FNL 210' FEL, T11S, R20E, Uintah County, Utah.
OWNERSHIP: PRIV[] STATE[X] BLM[] USFS[] NPS[] IND[] MIL[] OTHER[]
DATE: September 20, 2006
GEOLOGY/TOPOGRAPHY: Green River Formation, upper part, Eocene Age. Road and pipeline come in from the northeast from the proposed road to LCU#13-10H. The road follows a spur, then goes west to the location. Location is on a moderately steep east slope and has interbedded shales and sandstone. There is a gully down south side and one east from the center stake. There is also a gully on the north.
PALEONTOLOGY SURVEY: YES [X] NO Survey [] PARTIAL Survey []
SURVEY RESULTS: Invertebrate [] Plant [] Vertebrate [X] Trace [] No Fossils Found []
Found one isolated black turtle shell fragment near the pipeline. This was not recorded as a locality.
PALEONTOLOGY SENSITIVITY: HIGH [] MEDIUM [] LOW [X] (PROJECT SPECIFIC)
MITGATION RECOMMENDATIONS: NONE [X] OTHER [] (SEE BELOW)

There is always some potential for discovery of significant paleontological resources in the Green River Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, fish, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

PALEONTOLOGIST: Alden H. Hamblin

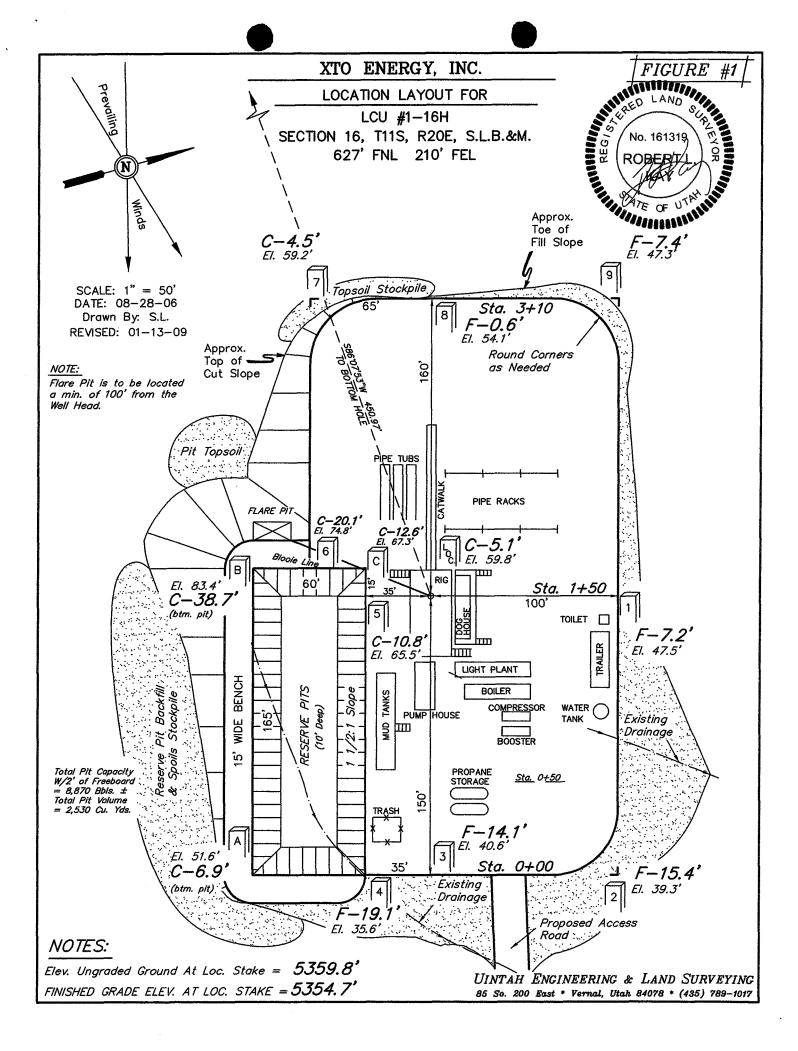
A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355 Utah State Paleontological Permit # 04-339, BLM paleontological Resources Permit # UT-S-05-02, Ute Tribe Access Permits – 03/31/06 & 09/30/06. Utah Professional Geologist License – 5223011-2250.

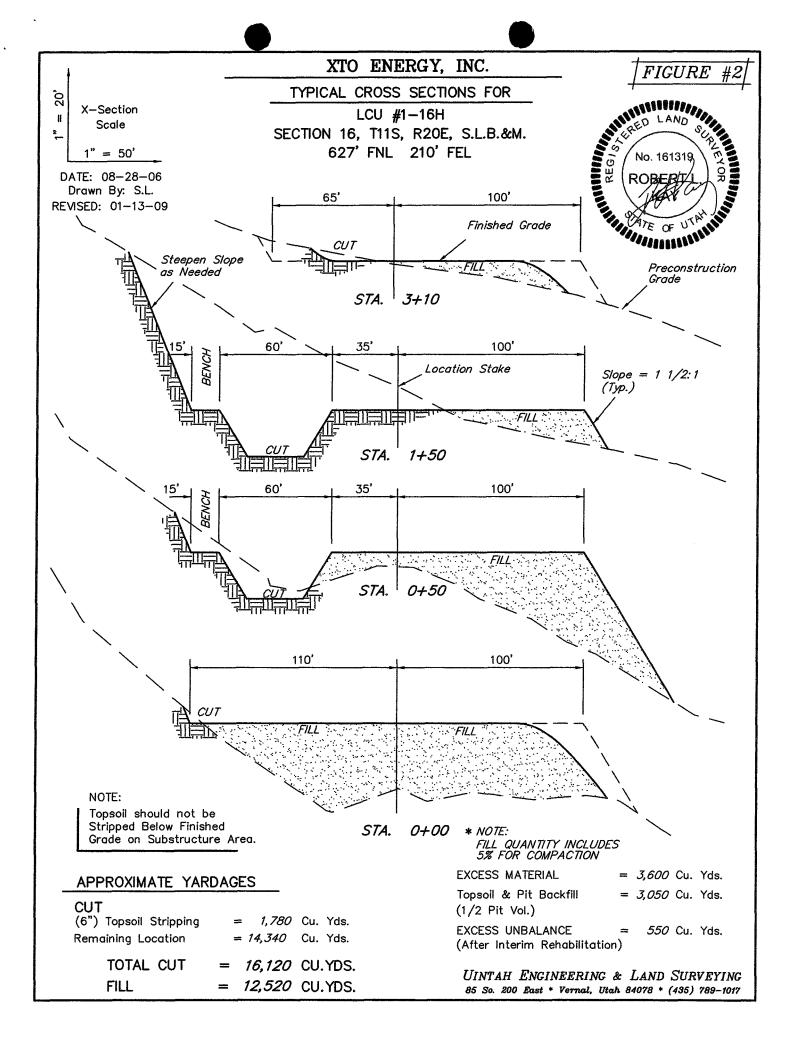


XTO ENERGY, INC. LCU #1-16H SECTION 16, T11S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88: EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH: TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #13-10H TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED THE SOUTHWEST; FOLLOW ROAD **FLAGS** ACCESS TO SOUTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.2 MILES.





XTO ENERGY, INC.

LCU #1-16H LOCATED IN UINTAH COUNTY, UTAH SECTION 16, T118, R20E, S.L.B.&M.

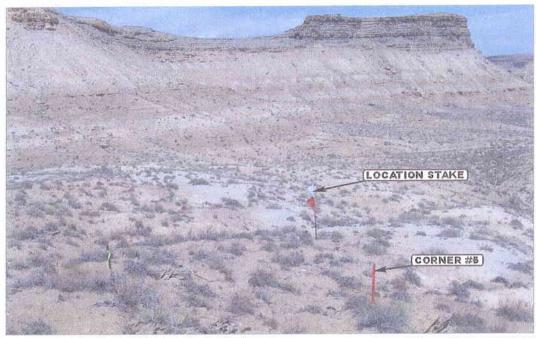


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



CAMERA ANGLE: SOUTHERLY



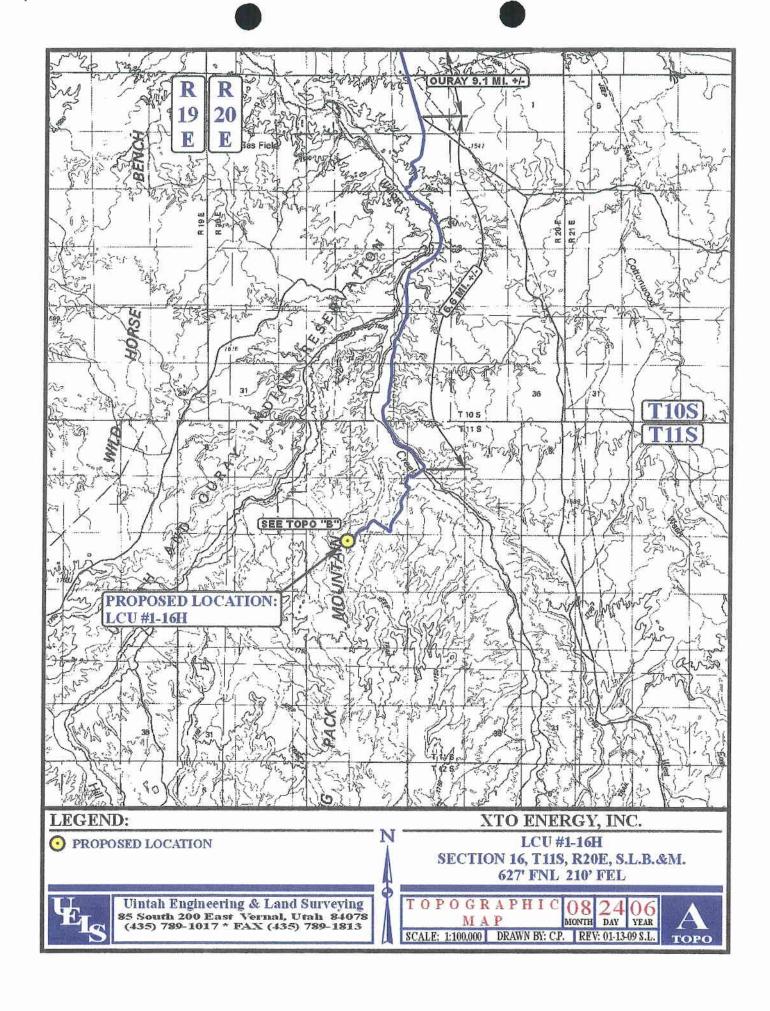
Uintah Engineering & Land Surveying S5 South 200 East Vernal, Utah 84078 435-789-1017 vels@velsinc.com

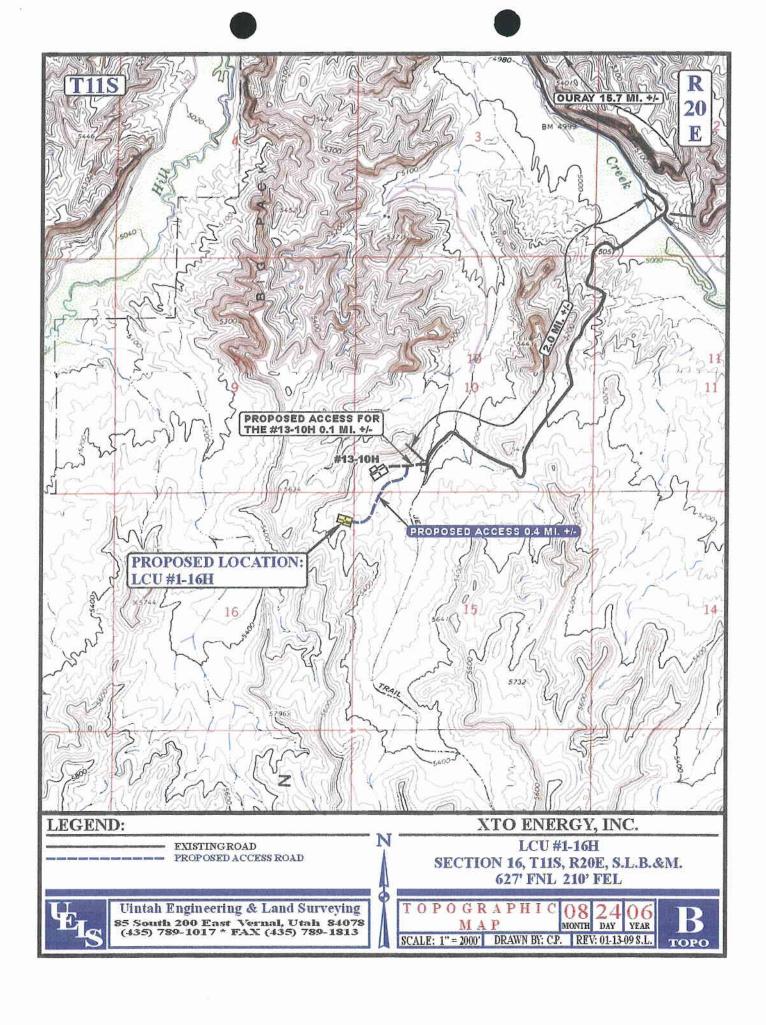
LOCATION PHOTOS

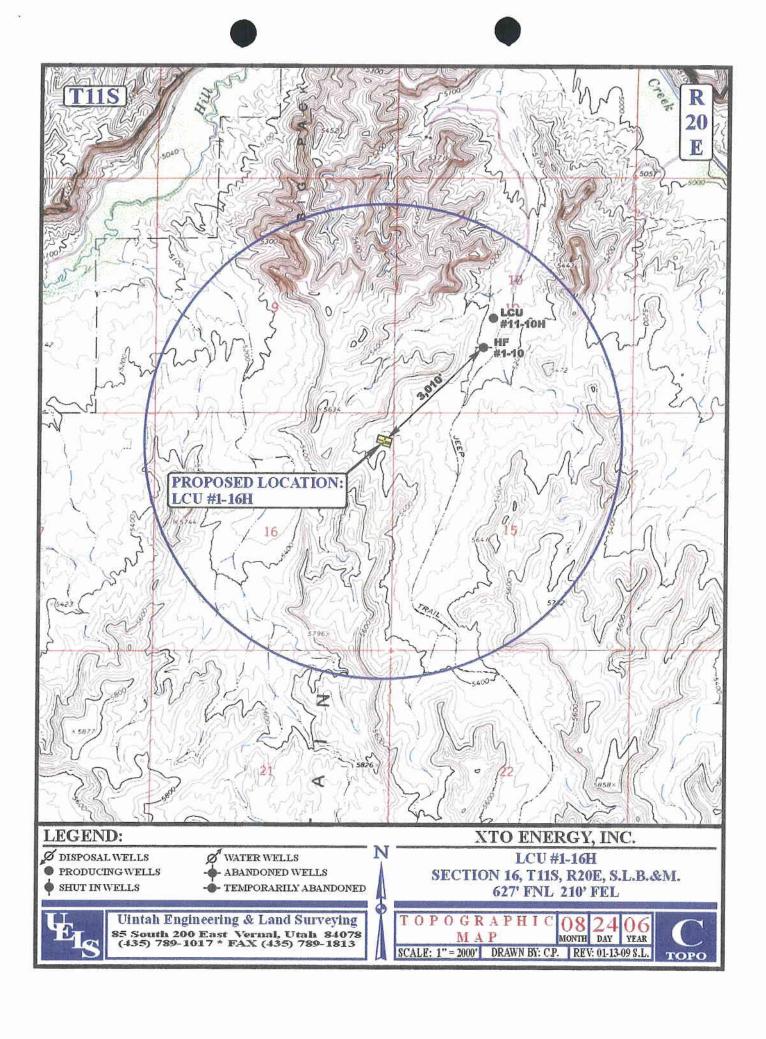
MONTH DAY YEAR

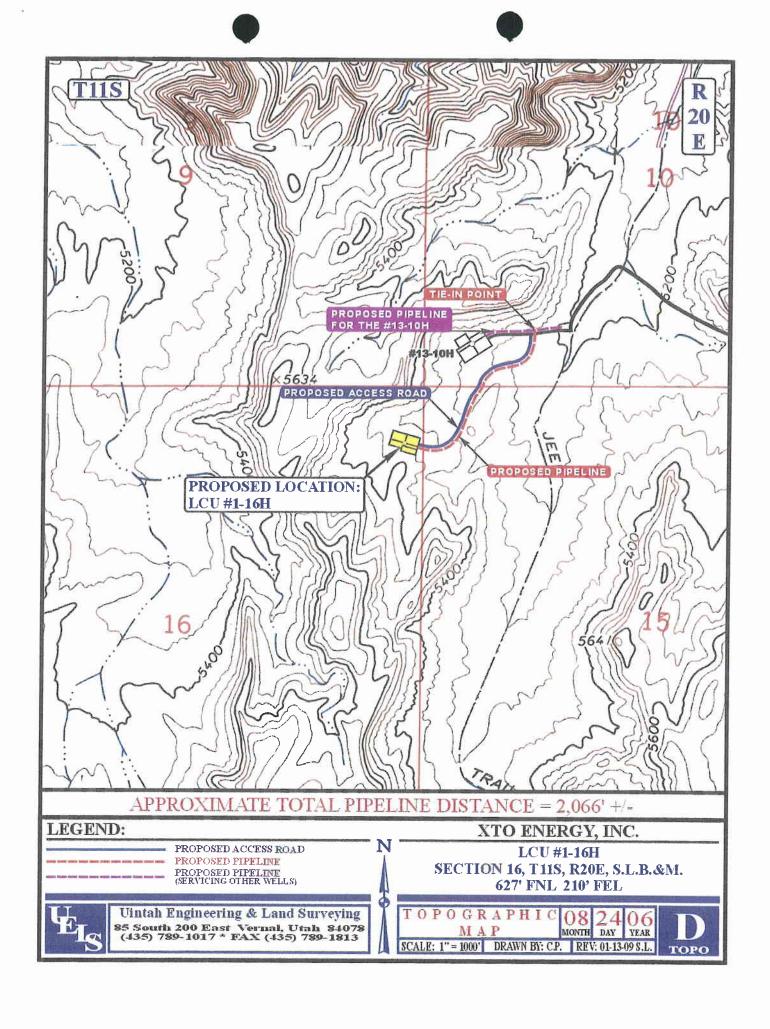
PHOTO

TAKEN BY: B.B. | DRAWN BY: C.P. | REV: 01-13-09 S.L.



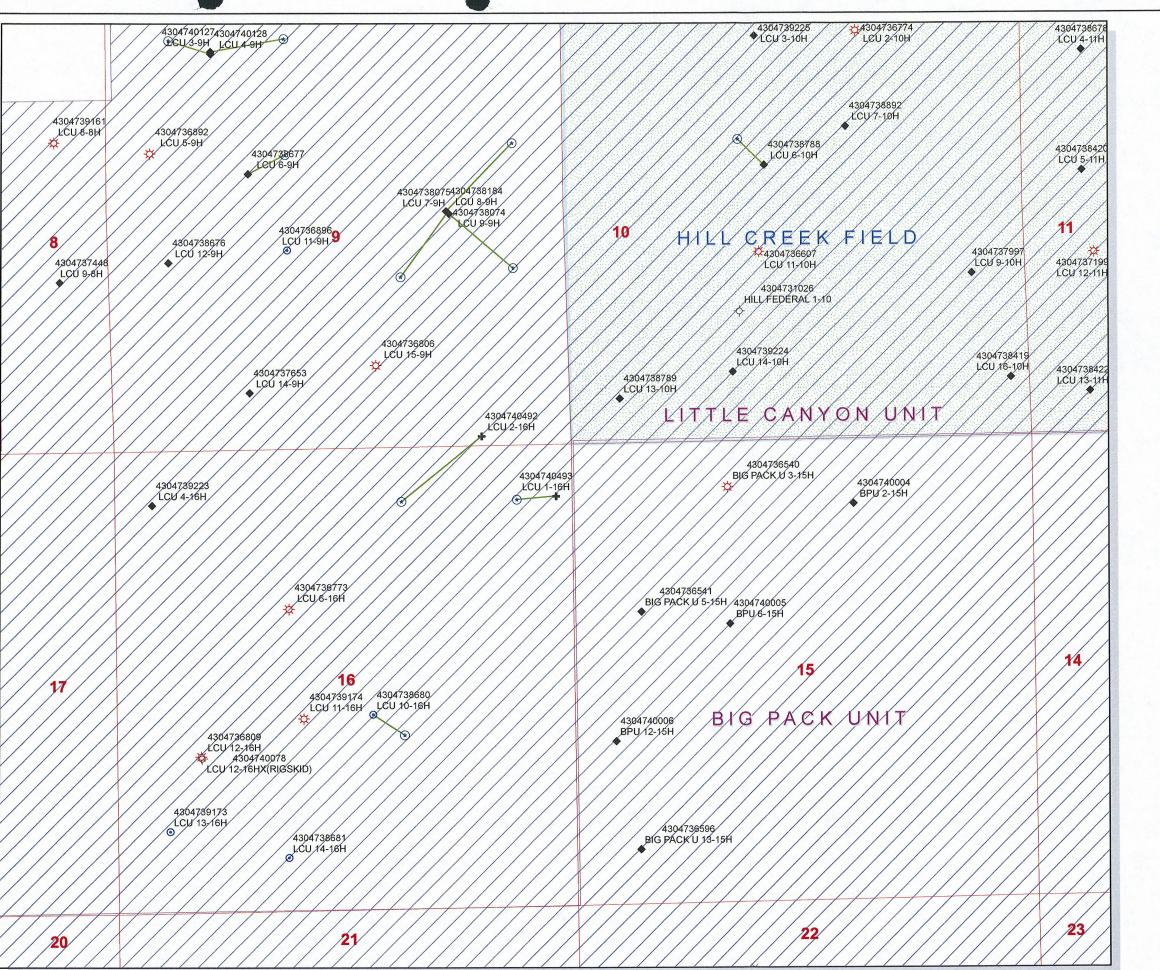






APD RECEIVED: 01/22/2009		API NO. ASSIG	ENED: 43-04	7-40493
WELL NAME: LCU 1-16H				
OPERATOR: XTO ENERGY INC (N2615)		PHONE NUMBER:	435-722-452	21
CONTACT: DON HAMILTON				
PROPOSED LOCATION:		INSPECT LOCATN	BY: /	/
NENE 16 110S 200E SURFACE: 0627 FNL 0210 FEL		Tech Review	Initials	Date
BOTTOM: 0660 FNL 0660 FEL		Engineering	DKO	3/9/09
COUNTY: UINTAH		Geology		
LATITUDE: 39.86599 LONGITUDE: -109.6747		Surface		
UTM SURF EASTINGS: 613354 NORTHINGS: 44135 FIELD NAME: UNDESIGNATED (2		Surface		
LEASE TYPE: 3 - State LEASE NUMBER: ML-48772 SURFACE OWNER: 1 - Federal	· · ·	PROPOSED FORMA		4VD
RECEIVED AND/OR REVIEWED:	LOCATI	ON AND SITING:		
✓ Plat	F	R649-2-3.		
Bond: Fed[] Ind[] Sta[] Fee[]		LITTLE CANYON 8	gK .	
(No. 104312762)	Unit:	LITTLE CANTON		
N Potash (Y/N)	I ——	R649-3-2. Gener		
<u>L</u> Oil Shale 190-5 (B) or 190-3 or 190-13	l	Siting: 460 From Qt		Between Wells
Water Permit (No. 43-10991)	F	R649-3-3. Excep	tion	
RDCC Review (Y/N)		Orilling Unit		
(Date:)		Board Cause No: Eff Date:	259-	212/
Lim Fee Surf Agreement (Y/N)		Siting: 460 h	11 bars & 14	ncomm. Trace
NA Intent to Commingle (Y/N)	/ /		O,	
		R649-3-11. Dire	ctional Dri	·
COMMENTS:				
STIPULATIONS: Leder Lede	an proport	$\overline{}$		
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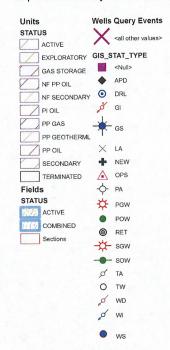


API Number: 4304740493 Well Name: LCU 1-16H

Township 11.0 S Range 20.0 E Section 16

Meridian: SLBM
Operator: XTO ENERGY INC

Map Prepared:
Map Produced by Diana Mason







Application for Permit to Drill Statement of Basis

3/12/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No

Operator

API WellNo

Status

Well Type GW Surf Ownr F CBM No

1325

43-047-40493-00-00

Surface Owner-APD

Well Na

Well Name LCU 1-16H

Unit

LITTLE CANYON

Field

UNDESIGNATED

XTO ENERGY INC

Type of Work

Location NENE 16 11S 20E S 627 FNL 210 FEL

GPS Coord (UTM) 613354E 4413514N

Geologic Statement of Basis

XTO proposes to set 2,231 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 3,900 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the proposed location. This well is over a mile from the proposed location. The well depth is not listed. The well is owned by the BLM. Use is listed as stock/wildlife watering. The surface formation at this location is he Uinta Formation-Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation can contain significant aquifers. The proposed casing and cementing programs should adequately protect any near surface aquifers. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill

3/12/2009

APD Evaluator

Date / Time

Surface Statement of Basis

Surface rights at the proposed location are administered by the BLM. The operator is responsible for obtaining any needed permits and rights-of-way from the BLM.

Brad Hill

3/11/2009

Onsite Evaluator

Date / Time

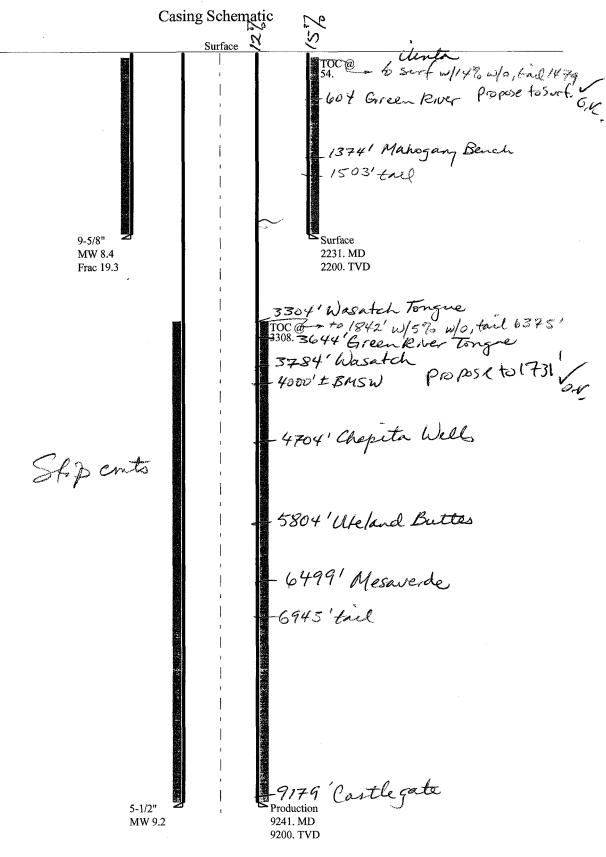
Conditions of Approval / Application for Permit to Drill

Category

Condition

None

43047404930000 LCU 1-16H



Well name:

43047404930000 LCU 1-16H

Operator:

XTO Energy, Inc.

String type:

Surface

Project ID:

43-047-40493-0000

Location:

Uintah County

Minimum design factors: **Environment:**

Collapse

Design parameters:

Mud weight: 8.400 ppg Design is based on evacuated pipe.

Collapse: Design factor 1.125

H2S considered?

No 65 °F

Surface temperature: Bottom hole temperature: Temperature gradient:

96 °F 1.40 °F/100ft

Minimum section length:

185 ft

Burst:

1.00 Design factor

Cement top:

54 ft

Burst

Max anticipated surface

No backup mud specified.

1,936 psi pressure: 0.120 psi/ft Internal gradient: Calculated BHP 2,200 psi

Tension: 8 Round STC:

Neutral point:

1.80 (J) 1.80 (J) 8 Round LTC: **Buttress:** 1.60 (J) 1.50 (J)

Premium: 1.50 (B) Body yield:

Tension is based on air weight.

1,952 ft

Directional Info - Build & Hold

Kick-off point 0 ft Departure at shoe: 332 ft Maximum dogleg: 3 °/100ft 10.93°

Inclination at shoe: Re subsequent strings:

Next setting depth: 9,200 ft 9.200 ppg Next mud weight: Next setting BHP: 4,397 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure:

2,200 ft 2,200 psi

Run Seq	Segment Length	Size	Nominal Weight	Grade	End Finish	True Vert Depth	Measured Depth	Drift Diameter (in)	Internal Capacity (ft³)
1	(ft) 2231	(in) 9.625	(lbs/ft) 36.00	J-55	ST&C	(ft) 2200	(ft) 2231	8.796	968.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	960	2020	2.104	2200	3520	1.60	79	394	4.97 J

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining by:

Phone: 810-538-5357

Date: February 3,2009 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:

43047404930000 LCU 1-16H

Operator:

XTO Energy, Inc.

String type:

Location:

Production

Uintah County

Project ID:

43-047-40493-0000

Design parameters:

Collapse

Mud weight: 9.200 ppg Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor

1.125

1.00

1.50 (B)

Factor

1.76

(Kips)

156

Environment:

H2S considered? Surface temperature: No 65 °F

194 °F Bottom hole temperature: 1.40 °F/100ft Temperature gradient: Minimum section length:

368 ft

Burst: Design factor

Cement top:

3,308 ft

Burst

Max anticipated surface

2,373 psi pressure: 0.220 psi/ft Internal gradient: Calculated BHP 4,397 psi

No backup mud specified.

(psi)

4397

1

Tension:

8 Round STC: 1.80 (J) 8 Round LTC: 1.80 (J) 1.60 (J) Buttress: Premium: 1.50 (J)

Body yield:

(psi)

4397

Tension is based on air weight. 7.958 ft Neutral point:

Directional Info - Build & Hold

Kick-off point 0 ft Departure at shoe: 451 ft 3 °/100ft Maximum dogleg:

0° Inclination at shoe:

(Kips)

348

Factor

2.23 J

Drift Internal Segment Nominal End **True Vert** Measured Run Depth Depth Diameter Capacity Length Size Weight Grade **Finish** Seq (ft³) (lbs/ft) (ft) (ft) (in) (ft) (in) N-80 LT&C 9200 9241 4.767 1206.2 1 9241 5.5 17.00 Tension Run Collapse Collapse Collapse **Burst** Burst **Burst Tension Tension** Design Strength Design Load Strength Design Seq Load Strength Load

(psi)

7740

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Mining by:

(psi)

6290

Phone: 810-538-5357

Date: February 3,2009 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Factor

1.431

Collapse is based on a vertical depth of 9200 ft, a mud weight of 9.2 ppg The casing is considered to be evacuated for collapse purposes. Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

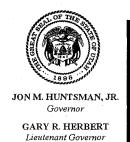
BOPE REVIEW	XTO	LCU 1-16H	43-047-40493-0000
IDUPE REVIEW	AIU	FCC 1-1011	40-04/-40400-00001

INPUT					
Well Name	XTO LCU 1-16H 43-047-40493-0000				
	String 1	String 2			
Casing Size (")	10 3/4	5 1/2			
Setting Depth (TVD)	2200	9200			
Previous Shoe Setting Depth (TVD)	0	2200			
Max Mud Weight (ppg)	8.4	9.2			
BOPE Proposed (psi)	500	3000			
Casing Internal Yield (psi)	3520	7740			
Operators Max Anticipated Pressure (psi)	4600	9.6	ppg 🗸		

Calculations	String 1	10 3/4	19	
Max BHP [psi]	.052*Setting Depth*MW =	961		
			BOPE Adequate	For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	697	NO	Diverter
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	477	YES	
			*Can Full Expec	ted Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth) =	477	€ NO	
Required Casing/BOPE Test Pressure		2200	psi_/	
*Max Pressure Allowed @ Previous Casing Shoe =		0	psi Ұ	*Assumes 1psi/ft frac gradient

Calculations	String 2	5 1/2	**		· · · · ·		
Max BHP [psi]	.052*Setting Depth*MW =	4401				•	
			BOPE A	Adequ	ate F	or Drilling And Setting Casing at Depth?	
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3297		NO			
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	2377		YES	1		
			*Can Fu	ıll Exp	ecte	Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP22*(Setting Depth - Previous Shoe Depth) =	2861		NO	120	450,74616	
Required Casing/BOPE Test	Pressure	3000	psi	T			
*Max Pressure Allowed @ Previous Casing Shoe =		(2200	psi 🗸			*Assumes 1psi/ft frac gradient	•
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•	

-



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

March 12, 2009

XTO Energy, Inc. P O Box 1360 Roosevelt, UT 84066

Re:

LCU 1-16H Well, 627' FNL, 210' FEL, NE NE, Sec. 16, T. 11 South, R. 20 East, Bottom Location 660' FNL, 660' FEL, NE NE, Sec. 16, T. 11 South, R. 20 East,

Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40493.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

Uintah County Assessor

SITLA

Bureau of Land Management, Vernal Office



Operator:		XTO En	ergy, Inc.	
Well Name & Numb	ber	LCU 1-1	16H	
API Number:		43-047-	40493	
Lease:	·	ML-487		
Location:	NE NE	Sec. 16	T. 11 South	R. 20 East
Bottom Location:	NE NE	Sec. 16	T. 11 South	R. 20 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to spudding the well contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well contact Dustin Doucet
- Any changes to the approved drilling plan contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

• Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home

• Carol Daniels at: (801) 538-5284 office

• Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Page 2 43-047-40493 March 12, 2009

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 7. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	s	FORM 9
	DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-48772
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen Igged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 1-16H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047404930000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8	7410 505 333-3159 Ext	PHONE NUMBER:	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0627 FNL 0210 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NENE Section: 16	IP, RANGE, MERIDIAN: Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION OMPLETED OPERATIONS. Clearly show all pertended and services and services and services and services are referenced well.	on the State permit for the	
NAME (PLEASE PRINT) Eden Fine	PHONE NUMBER	TITLE Permitting Clerk	
SIGNATURE N/A	505 333-3664	DATE 3/4/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047404930000

API: 43047404930000

Well Name: LCU 1-16H

Location: 0627 FNL 0210 FEL QTR NENE SEC 16 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 3/12/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that requ

informat uire revis	tion as submitted sion. Following is	in the previousl a checklist of so	y approved appli ome items related	cation to dri I to the appl	II, remair ication, v	is valid and does not which should be verific	ed.
	ated on private lar ed? 📗 Yes 🌘		ership changed, i	f so, has the	surface	agreement been	
	any wells been dr requirements for			ed well whic	ch would	affect the spacing or	
	nere been any unit s proposed well? (•	e that could	affect th	e permitting or opera	tio
	there been any ch the proposed loca			ing ownersh	ip, or rig	htof- way, which coul	d
• Has th	ne approved sourc	e of water for d	rilling changed?	Yes 📵	No		
	there been any ph e in plans from w					which will require a No	
• Is bor	nding still in place	, which covers t	his proposed wel	l? 📵 Yes	No No	Approved by the Utah Division of I, Gas and Mining	
nature:	Eden Fine	Date: 3/-	4/2010				
Title:	Permitting Clerk Re	epresenting: XT	O ENERGY INC		Date:	March 04, 2010	
	5				J.	-00cailW	

Sig

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	s	FORM 9
	DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: ML-48772
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen Igged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 1-16H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047404930000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8	7410 505 333-3159 Ext	PHONE NUMBER:	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0627 FNL 0210 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NENE Section: 16	IP, RANGE, MERIDIAN: Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION OMPLETED OPERATIONS. Clearly show all pertended and services and services and services and services are referenced well.	on the State permit for the	
NAME (PLEASE PRINT) Eden Fine	PHONE NUMBER	TITLE Permitting Clerk	
SIGNATURE N/A	505 333-3664	DATE 3/4/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047404930000

API: 43047404930000

Well Name: LCU 1-16H

Location: 0627 FNL 0210 FEL QTR NENE SEC 16 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 3/12/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that requ

informat uire revis	tion as submitted sion. Following is	in the previousl a checklist of so	y approved appli ome items related	cation to dri I to the appl	II, remair ication, v	is valid and does not which should be verific	ed.
	ated on private lar ed? 📗 Yes 🌘		ership changed, i	f so, has the	surface	agreement been	
	any wells been dr requirements for			ed well whic	ch would	affect the spacing or	
	nere been any unit s proposed well? (•	e that could	affect th	e permitting or opera	tio
	there been any ch the proposed loca			ing ownersh	ip, or rig	htof- way, which coul	d
• Has th	ne approved sourc	e of water for d	rilling changed?	Yes 📵	No		
	there been any ph e in plans from w					which will require a No	
• Is bor	nding still in place	, which covers t	his proposed wel	l? 📵 Yes	No No	Approved by the Utah Division of I, Gas and Mining	
nature:	Eden Fine	Date: 3/-	4/2010				
Title:	Permitting Clerk Re	epresenting: XT	O ENERGY INC		Date:	March 04, 2010	
	5				J.	-00cailW	

Sig

	FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: ML-48772		
SUND	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propos bottom-hole depth, reenter plu DRILL form for such proposals.	sals to drill new wells, significantly deepen ex igged wells, or to drill horizontal laterals. Use	isting wells below current APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: LITTLE CANYON
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: LCU 1-16H
2. NAME OF OPERATOR: XTO ENERGY INC			9. API NUMBER: 43047404930000
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8		NUMBER:	9. FIELD and POOL or WILDCAT: HILL CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0627 FNL 0210 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI	P, RANGE, MERIDIAN: Township: 11.0S Range: 20.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
✓ NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
3/8/2012	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	□ NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	□ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date.	□ WILDCAT WELL DETERMINATION □	OTHER	OTHER:
	MPLETED OPERATIONS. Clearly show all pertine		
XTO Energy hereby re	equests a one (1) year extension	n of the State APD for the	
	referenced well.		Approved by the Utah Division of
			Oil, Gas and Mining
			03/00/2011
		Da	ate: 03/03/2011
		В	y: Balyell
			33
NAME (PLEASE PRINT) Krista Wilson	PHONE NUMBER 505 333-3647	TITLE Permitting Tech	
SIGNATURE N/A		DATE 3/8/2011	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047404930000

API: 43047404930000

Well Name: LCU 1-16H

Location: 0627 FNL 0210 FEL QTR NENE SEC 16 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 3/12/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

 If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? 🔘 Yes 📵 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No

Signature: Krista Wilson **Date:** 3/8/2011

Title: Permitting Tech Representing: XTO ENERGY INC

Sundry Number: 23278 API Well Number: 43047404930000

STATE OF UTAH					FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING				5.LEASE DESIGNATION AND SERIAL NUMBER: ML-48772			
SUNDRY NOTICES AND REPORTS ON WELLS				6. IF IND	IAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: LITTLE CANYON			
1. TYPE OF WELL Gas Well				8. WELL LCU 1-	NAME and NUMBER: 16H		
2. NAME OF OPERATOR: XTO ENERGY INC				9. API NI 43047	JMBER: 404930000		
3. ADDRESS OF OPERATOR: 382 Road 3100, Aztec, NN	M, 87410 505 333-31		NE NUMBER: xt	9. FIELD and POOL or WILDCAT: HILL CREEK			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0627 FNL 0210 FEL				COUNTY			
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 6 Township: 11.0S Range: 20.0E Meri	dian:	S	STATE: UTAH			
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	RT, OR C	THER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
7	ACIDIZE		ALTER CASING		CASING REPAIR		
NOTICE OF INTENT Approximate date work will start: 1/30/2013	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME		
1/30/2013	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ F	FRACTURE TREAT		NEW CONSTRUCTION		
Bate of Work Completion.	OPERATOR CHANGE	☐ F	PLUG AND ABANDON		PLUG BACK		
	PRODUCTION START OR RESUME	☐ F	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON		
	TUBING REPAIR		VENT OR FLARE		WATER DISPOSAL		
DRILLING REPORT	WATER SHUTOFF		SI TA STATUS EXTENSION	1	APD EXTENSION		
Report Date:	WILDCAT WELL DETERMINATION		OTHER	отні	ER:		
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show	all ne	rtinent details including dates d	lenths vo	lumes etc		
	ing a one year extension to				Approved by the		
	3 ,				Utah Division of il, Gas and Mining		
				Date	February 28, 2012		
				By:_	Losquel		
					Q G		
NAME (PLEASE PRINT)	PHONE NUM	BER	TITLE				
Kelly Kardos 505 333-3145			Secd Sr. Permitting Tech				
SIGNATURE N/A			DATE 2/23/2012				

Sundry Number: 23278 API Well Number: 43047404930000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047404930000

API: 43047404930000

Title: Secd Sr. Permitting Tech Representing: XTO ENERGY INC

Well Name: LCU 1-16H

Location: 0627 FNL 0210 FEL QTR NENE SEC 16 TWNP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC Date Original Permit Issued: 3/12/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

5		, ,	
• If located on _I Yes 📵 No	·	nership changed, if so, ha	s the surface agreement been updated? 🔘
	s been drilled in the vio		I which would affect the spacing or siting
	en any unit or other agre I? Q Yes 📵 No	eements put in place that	could affect the permitting or operation of thi
	en any changes to the a ation? 🦳 Yes 📵 N		nership, or rightof- way, which could affect th
• Has the appro	ved source of water for	r drilling changed? 🥛 Y	es 📵 No
		es to the surface location of e onsite evaluation?	or access route which will require a change in Yes No
• Is bonding sti	II in place, which covers	s this proposed well? 🌘	Yes 🔘 No
Signature: Kelly Ka	rdos	Date: 2/23/2012	

RECEIVED: Feb. 23, 2012



State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

March 20, 2013

43 047 40493 LCU 1-16H 11S 20E 16

Rick Redus XTO Energy Inc. 382 Road 3100 Aztec, NM 87410

Re:

APDs Rescinded for XTO Energy Inc.

Uintah/Emery County

Dear Mr. Redus:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 20, 2013.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

want De lasne Diana Mason

Environmental Scientist

cc:

Bureau of Land Management, Vernal

SITLA, Ed Bonner



Fwd: APDs

Brad Hill
bradhill@utah.gov>

Wed, Mar 20, 2013 at 2:35 PM

To: Diana Mason < DIANAWHITNEY@utah.gov>

Here are some you can get rid of.

----- Forwarded message -----

From: Redus, Richard < Richard_Redus@xtoenergy.com>

Date: Wed, Mar 20, 2013 at 2:31 PM

Subject: APDs

To: "bradhill@utah.gov" <bradhill@utah.gov>

Mr Hill,

Please cancel the below APD's as XTO will not be drilling these wells within the foreseeable future.

XTO ENERGY INC	4304737569	RBU 14-15F	DRILL	01/12/2006	01/12/2013
XTO ENERGY INC	4304752133	LCU 4-16H	DRILL	01/12/2012	01/12/2013
XTO ENERGY INC	4301530704	UT FED 18-7-22-24	DRILL	01/24/2007	01/24/2013
XTO ENERGY INC	4304737648	RBU 6-4E	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737652	RBU 7-16F	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737653	LCU 14-9H	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304751354	KC 15-32E	DRILL	02/03/2011	02/03/2013
XTO ENERGY INC	4304736295	RBU 10-21E	DRILL	02/09/2005	02/09/2013
XTO ENERGY INC	4304740524	RBU 30-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740529	RBU 21-24E	DRILL	02/10/2009	02/10/2013

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	XTO ENERGY INC	4304740530	RBU 28-23E	DRILL	02/10/2009	02/10/2013
	XTO ENERGY INC	4304740531	RBU 23-23E	DRILL	02/10/2009	02/10/2013
	XTO ENERGY INC	4304740532	RBU 31-23E	DRILL '	02/10/2009	02/10/2013
	XTO ENERGY INC	4304740533	RBU 25-23E	DRILL	02/10/2009	02/10/2013
	XTO ENERGY INC	4304739050	LCU 15-4H	DRILL	02/12/2007	02/12/2013
	XTO ENERGY INC	4304739051	KC 15-31E	DRILL	02/21/2007	02/21/2013
	XTO ENERGY INC	4304752053	AP 14-2J	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752054	AP 16-2J	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752055	AP 5-2JX	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752102	LCU 16-36F	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752103	LCU 2-2H	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752104	LCU 4-2H	DRIĻL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752106	LCU 7-36F	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304752108	LCU 2-36F	DRILL	02/29/2012	02/28/2013
- CANADA CONTRACTOR CO	XTO ENERGY INC	4304752109	LCU 4-36F	DRILL	02/29/2012	02/28/2013
	XTO ENERGY INC	4304739068	KC 7-33E	DRILL	03/05/2007	03/05/2013
	XTO ENERGY INC	4304739069	KC 13-33E	DRILL	03/05/2007	03/05/2013
Contract of the last of the la	XTO ENERGY INC	4304739070	KC 15-33E	DRILL	03/05/2007	03/05/2013
***************************************	XTO ENERGY INC	4304737748	RBU 14-16F	DRILL	03/09/2006	03/09/2013
i						

3/20/13	
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13			State of Utah Mail - Fwd: APDs			
XTO ENERGY INC	4304740588	RBU 22-24E	DRILL	03/11/2009	03/11/2013	
XTO ENERGY INC	4304740492	LCU 2-16H	DRILL	03/12/2009	03/12/2013	
XTO ENERGY INC	4304740493	LCU 1-16H	DRILL	03/12/2009	03/12/2013	
XTO ENERGY INC	4304739158	LCU 15-3H	DRILL	03/28/2007	03/28/2013	
XTO ENERGY INC	4304739159	LCU 5-3H	DRILL	03/28/2007	03/28/2013	

Rick Redus

Permitting Specialist

XTO Energy Western Division

Wrk: 303-397-3712

Cell: 720-539-1673

From: bradhill@utah.gov [mailto:bradhill@utah.gov]

Sent: Monday, March 04, 2013 1:20 PM

To: Redus, Richard

Subject: Sundry For API Well Number 43047364300000

Notice of Intent: APD_EXTENSION API Number: 43047364300000 Operator: XTO ENERGY INC Approved: 3/4/2013

Brad Hill P.G.
O & G Permitting Manager/Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining

Phone: (801)538-5315 Fax: (801)359-3940 email: bradhill@utah.gov



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Green River District Vernal Field Office 170 South 500 East Vernal, UT 84078 http://www.blm.gov/ut/st/en/fo/vernal.html



March 14, 2013

IN REPLY REFER TO: 3160 (UTG011)

Rick Redus XTO Energy, Inc. PO Box 6501 Englewood, CO 80155 43 047 40493

Re: Request to Return APD Well No. LCU 1-16H NENE, Sec. 16, T11S, R20E Uintah County, Utah

Lease No. STATE (ML-48772)

Little Canyon Unit

RECEIVED

MAR 2 6 2013

DIV. OF OIL, GAS & MINING

Dear Mr. Redus:

The Application for Permit to Drill (APD) for the above referenced well received in this office on January 20, 2009, is being returned unapproved per your request to this office in an email message to Natural Resource Specialist David Gordon received on December 18, 2012. If you intend to drill at this location at a future date, a new APD must be submitted.

If you have any questions regarding APD processing, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka Assistant Field Manager Lands & Resource Minerals

Enclosures

CC:

UDOGM

RECEIVED

MAR 2 6 2013

bcc:

Well File

Don Hamilton

DIV. OF OIL, GAS & MINING